

An adaptive digital filter (10) is adapted to generate a pseudo echo S_e which is produced by imitating a noise, using part of receiving signals S_i and to output it. An echo produced through an echo path (15) is mixed, as an echo noise, with a sending signal S_o and this sending signal is attenuated by a level attenuator (6). The level attenuator (6), in order to match the amplitude level of the echo noise of the sending signal S_o to that of the pseudo echo, attenuates the sending signal S_o and feeds it to a subtracter (7). The subtracter (7) eliminates echo noises by subtracting the pseudo echo S_e from the sending signal S_o . Even if the echo path is in the state of amplified system, the complete elimination of the echo can be achieved accordingly.

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